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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,118	09/21/2001	Steven R. Pearson	BEA920010027US1	5751
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			2163	

DATE MAILED: 03/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of ime may be available under the provision of 37 CFR 1.130(s). In no event, however, may a reply be telling date of this communication. Failther for you will be set from the making date of this communication. Failther for you will be set from the making date of this communication. Failther for you will be set from the making date of this communication. Failther for you will be set or cataload period for rely will, by status, cause the application to become ABADONED (30 LS C, 61 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any searced patient term adjustment. Set 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 January 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1.14 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 02 September 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim fo		Application No.	Applicant(s)					
ASHORIENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Estensions of time may be evaluated under the provision of 30 FR 1136(b). In no event, however, may a nerby be timely feed where SIX (6) MONTHS from the mailing date of this communication of 30 FR 1136(b). In no event, however, may a nerby be timely feed where SIX (6) MONTHS from the mailing date of this communication. Failur to injust which has do to excluded period for reply will. by stables, cause the application become ABANDONED TS U.S. C. § 1133). Any reply received by the Office later than three months after the mailing date of this communication, reply received by the Office later than three months after the mailing date of this communication, reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any searce platent time adjustment. See 37 CFR 1.74(b). Status 1) □ Responsive to communication (s) filed on 24 January 2006. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1.14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are objected to by the Examiner. 10) □ The drawing(s) filed on 22 September 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. 10 □ The drawing(s) filed on 22 September 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S		09/960,118	PEARSON, STEVEN R.					
— The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALING DATE OF THIS COMMUNICATION. Entensions for them say be vailable under the provision of 37 CFR 1.135(a). In nevert, however, may a reply tell be strength of the communication of 37 CFR 1.135(a). In nevert, however, may a reply be timely filled and strength of the communication of 37 CFR 1.135(a). In never, however, may a reply be timely filled on 24 January 2006. Failus to require them adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filled on 24 January 2006. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-14 is/are pending in the application. 4) □ Claim(s) 1-14 is/are pending in the application. 4) □ Claim(s) 1-14 is/are rejected. 7) □ Claim(s) 1-14 is/are rejected. 7) □ Claim(s) 1-14 is/are rejected to by the Examiner. 10) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 02 September 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * o) □ None of: 1. □ Certified copies of the priority documents have been received in Application No. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the Internatio	Office Action Summary	Examiner	Art Unit					
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1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)	Attachment(s)							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate					

Response to Amendment

This Action is responsive to Applicant's response filed January 24, 2006. Claims 1-14 are pending.

To expedite the process of examination Examiner requests that all future correspondences in regard to overcoming prior art rejections or other issues (e.g. amendments, 35 U.S.C. 112, objections and the like) set forth by the Examiner that Applicants provide and link to the most specific page and line numbers of the disclosure where the best support is found (see 35 U.S.C. 132).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1, 6 and 9, claim 1 being exemplary, the step of "compiling" is indefinite. It is not clear what data is compiled since the output stream is empty before compilation. The step of "placing" and "placing means" is indefinite. It is not clear what the metes and bounds of placing are. Examiner suggests replacing placing with a definitive term used in the art such as copying or inserting without adding new subject matter. The step of "switching from processing a next data item" is indefinite. It is not clear what data is switched or how it is switched. The term "formation" is indefinite. Formation is not consistent with the preamble and should be replaced with creating. The phrase "exclusive use" is indefinite. It is not clear what the metes and bounds of exclusive use are in the context of the claim. The segment of "a quantity of said input streams is an odd number greater than one" is indefinite.

The lowest odd number greater than 1 is 3, however, the claim appears to use only a first input stream and a second input stream, thus processing or interacting with 3 or more input streams is not taught or used in the claim. To expedite the processing of the examination, Examiner interprets the step of "a quantity of said input streams is an odd number greater than one" as two input streams.

Further regarding claim 1, the term "a node" is indefinite. It is not clear how one input stream has a node and the other does not. Examiner suggests deleting node from the claim.

Further regarding claims 1 and 6, the term merging is not consistent with the rest of the claim since the body of the claim does not merge any data. .

Further regarding claim 9, the step of "merges said input streams into said single output stream" is indefinite. It is not clear what input streams are merged or how they are merged.

Claims 2-5, 7, 8 and 10-14 depend from claims 1, 6 and 9 respectively, thus they are rejected on the same basis.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Or,

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6 and 9 are rejected under 35 U.S.C. 102(b) as best as Examiner is able to ascertain as being anticipated by Smith (U.S. Patent No. 5,832,068).

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Regarding claims 1, 6 and 9, Smith discloses a method, program and data structure for creating a single output data stream by merging data items from two or more input streams comprising: (merging being equated with organizing data, see fig. 1, items 10 and 12 col. 1, lines 19-24)

(Note: Smith compares unique record identifiers, if a match occurs indicating it's a duplicate, that record is discarded and not processed, equivalent to Applicant's merging step of simply merging two streams into one, just like Smith merges two input streams into one by discarding the duplicate)

processing data items; (fig. 2)

assigning a status identifier to each input stream, said identifier reflecting a state of an input stream; (fig. 3, 104)

comparing a status identifier of a first input stream with a status identifier of a second input stream; (fig. 3, 106)

compiling data streams; (fig. 2)

identifying a data item being processed from a second input stream as being a duplicate of a previously processed data item from a first input stream based on said assigned duplicate data item; (fig. 3, items 106 and 108)

processing data items from said second input stream responsive to said assigned duplicate status identifier (col. 8, lines 47-51), wherein the step of processing said value merges said input streams into a single output stream and avoids exhausting one of said input streams when a

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quantity of said input streams is an odd number greater than one (col. 8, lines 51 and 52, fig. 4, items 208, 210 and 212).

(Note: record index is equivalent to nodes, see fig. 2)

(To expedite the processing of the examination, Examiner interprets the step of "a quantity of said input streams is an odd number greater than one" as two input streams)

Claims 1, 5, 6, 9 and 13 are rejected under 35 U.S.C. 102(a) as best as Examiner is able to ascertain as being anticipated by Applicant's Admitted Prior Art (AAPA),

Applicant's Disclosure.

Regarding claims 1, 6 and 9, Smith discloses a method, program and data structure for merging data items from two or more input streams comprising: (fig. 5A and page 1, par. 5, lines 2 and 3)

assigning a status identifier to each input stream, said identifier reflecting a state of an input stream; (fig. 5A, item 500 and see nodes)

processing data items; (fig. 5A)

comparing a status identifier of a first input stream with a status identifier of a second input stream; (fig. 5A, nodes and page 1, par. 5, lines 7 and 8)

compiling data streams; (fig. 5A)

identifying a data item being processed from a second input stream as being a duplicate of a previously processed data item from a first input stream based on said assigned duplicate data item; (fig. 5A, nodes and page 1, par. 6, lines 3-5, duplicate)

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processing data items form said second input stream responsive to said assigned duplicate status identifier (page 1, par. 5, lines 8-11 and par 6, line 4), wherein the step of processing said value merges said input streams into a single output stream and avoids exhausting one of said input streams when a quantity of said input streams is an odd number greater than one (fig. 5A and page 1, par. 5, lines 2 and 3 and 10-11).

(Note: AAPA teaches any number of input streams represented by the letter N)

AAPA further teaches each node of the selection tree comprises an identifier of one of the input streams, and a reference to a data item being processed from that one of the input streams (fig. 5A, item 500 and nodes)

Regarding claims 5 and 13, AAPA discloses the method is a replacement selection method using a loser oriented selection tree (fig. 5 and page 1, paragraphs 5 and 6).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4, 7, 8, 10-12, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (U.S. Patent No. 5,832,068) in view of AAPA.

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Regarding claims 2-4, 7, 8, 10-12 and 14, Smith discloses all of the claimed subject matter as discussed above including a status identifier corresponding to duplicate data item; (fig. 3, items 106 and 108, Smith), but does not expressly teach a value corresponding to "empty", "duplicate", "merging" or "done". Examiner states that assigning value identifiers for specific comparisons is a common practice in computer programming. For instance, AAPA teaches an ordered merging replacement selection wherein each node of a tree stores information about a "loser" of a prior sort key comparison among its children. AAPA further teaches the status identifier has a value corresponding to duplicate keys (p.1, par. 6, lines 6 and 7; -1,0,1 where 0 is done or a duplicate).

Hence, it would have been obvious to a person of ordinary skill in the art having Smith's indicator along with AAPA at the time the invention was made to modify Smith's indicator in view of AAPA so that the unique integer values would indicate a specific task (e.g. value two for merging) because Smith's data record exclusion indicator includes a generated unique data record identifier (col. 3, lines 27-29, Smith) and AAPA teaches values corresponding to comparisons, including duplicate keys (page 1, par. 6, lines 5-7, AAPA), thus the modification would be simple having both arts at hand. One would have been motivated to combine Smith and AAPA to process data faster and more efficiently.

Response to Arguments

Applicant's arguments filed January 24, 2006 have been fully considered but they are not persuasive. The arguments and responses are listed below. Note, Applicant herein refers to the Applicant's representative, Rochelle Lieberman.

On pages 6 and 7 of the 1/24/06 response, Applicant requests that by amending claims all 35 U.S.C. 112, second paragraph rejections should be withdrawn, specifically the rejection to the limitation of "a quantity of said input streams is an odd number greater than one".

Examiner disagrees. Applicant's amendment did not overcome all the indefiniteness issues previously raised, for details please see rejection above. Regarding the limitation, "a quantity of said input streams is an odd number greater than one", it remains indefinite. The body of the claims recites and teaches two input streams being compared, however, the entire process of processing, merging and executing two input streams is not clear and is rejected as being indefinite. The alleged teaching of processing and merging an odd number greater than one of input streams is not taught or performed in any of the 14 claims.

On page 9 of the 1/24/06 response regarding Smith, Applicant argues that, "Applicant's invention differs from Smith in the manner in which the output stream is built".

Examiner disagrees. Applicant's claims comprise many inconsistencies and are rejected as being indefinite. As a result, Examiner rejects the pending claims as best as can be ascertained. Smith processes data from a second input stream in response to a duplicate status identifier, see fig. 3, items 106 and 108, as claimed.

On page 10 of the 1/24/06 response regarding AAPA, Applicant argues that AAPA does not manage an odd number of three or greater of input streams.

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Examiner disagrees. The argued feature is not clearly claimed, further, AAPA permits merging any number of input streams (see page 1, par. 5, lines 10-11, AAPA), any number including both odd and even number of input streams.

On pages 11 and 12 of the 7/25/05 response, Applicant argues that prior art (Smith in view of AAPA) do not teach four integer options.

Examiner disagrees. As stated in previous Office Action, Smith and AAPA teach the status identifier has a value corresponding to empty, duplicate, merging and done (p.1, par. 6, lines 6 and 7; -1,0,1 where 0 is done or a duplicate, AAPA). Note, it is a common practice in computer programming to assign value identifiers for specific tasks. According to the claims and specification, each value corresponds to a unique identifier, and it is notoriously well known in computer programming to assign unique identifiers for empty, duplicate, merging, done, equal, etc. For more information please see rejection.

With respect to all the pending claims 1-14, Examiner respectfully traverses Applicants assertion based on the discussion and rejection above.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc R. Filipczyk whose telephone number is (571) 272-4019. The examiner can normally be reached on Mon-Fri, 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on (571) 272-4023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MF March 28, 2006

DON WORD BATENT EXAMINER